

TABLE 2 - 01/20/12 SAMPLE ANALYTICAL REQUIREMENTS SUMMARY DIMOCK RESIDENTIAL GROUNDWATER SITE DIMOCK, SUSQUEHANNA COUNTY, PENNSYLVANIA							
Analytical parameter and Method	Matrix	Sample Preservation	Holding Time (Days)	Sample Container(s)			
				Qty	Vol (ml)	Bottle Type	Comments
EPA R2 Lab							
Methylene Blue Active Substances (MBAS) (SM 5540C)	drinking water	Ice, 4°C	2	1	500	HDPE	
EPA R3 Lab							
0							
Anions: Chloride, Bromide, Fluoride, Orthophosphorus as P, Sulfate as SO4 (300.0)	drinking water	Ice, 6°C	28	1	500	HDPE	
Glycols incl. 2-Butoxyethanol (Modified 8321)	drinking water	Ice, 6°C	7	1	40	Glass Vial	No Headspace
Metals Dissolved: Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Na, Ni, Sb, Se, Sn, Sr,Ti, Tl, U, V, Zn (200.7/200.8/245.1)	Filtered drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	500	HDPE	
Metals: Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Na, Ni, Sb, Se, Sn, Sr,Ti, Tl, U, V, Zn (200.7/200.8/245.1)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	500	HDPE	
Semi-Volatiles (TCL plus TICs) (OLC03.2)	drinking water	Ice, 6°C	7	2	1000	Amber Glass	Teflon Lined Lids
Solids, Total Dissolved (TDS) (SM 2540C)	drinking water	Ice, 6°C	7	1	500	HDPE	
Solids, Total Suspended (TSS) (SM 2540D)	drinking water	Ice, 6°C	7	1	500	HDPE	
Volatiles + Acrylonitrile (TCL + TICs) (OLC03.2)	drinking water	2 drops of 1:1 HCl, pH<2, Ice, 6°C	14	4	40	Glass Vial	Teflon Lined Lids No Headspace
Wet Chemistry: - Phosphorus, Total (365.4); - Nitrate/Nitrite (353.2); - Nitrogen; Total (353.2)	drinking water	pH<2, H2SO4, and cool with ice, 4°C	28	1	500	HDPE	
Oil & Grease (HEM) (1664A)	drinking water	pH<2, H2SO4, and cool with ice, 4°C	28	1	1000	WM Amber Glass	Teflon Lined Lids
Alcohols: Ethanol, methanol, 1-propanol, 1-butanol, 2-butanol (8015D)	drinking water	Ice, 6°C	7	2	40	Glass Vial	Teflon Lined Lids No Headspace
EPA R9 Lab							
0							
Dissolved Gases, Methane, Ethane, Ethene, Propane, Butane (RSK-175, or equiv - EPA R9 SOP 325)	drinking water	pH<2 with HCl and cool with ice, 4°C	7	2	40	Glass Vial	
DRO (8015M, or equiv-EPA R9 SOP 385)	drinking water	Ice, 4°C	7 ⁽¹⁾	2	1000	Amber Glass	Teflon Lined Lids
GRO (8015M, or equiv-EPA R9 SOP 380)	drinking water	pH<2 with HCl and cool with ice, 4°C	14	2	40	Glass Vial	Teflon Lined Lids No Headspace
NAREL							
0							
Alpha Spec (Th-228, Th-230, Th-232) (DOE HASL 300)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Alpha Spec (U-234, U-235, U-236, U-238) (DOE HASL 300)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Gamma Spec Bi-212, Bi-214, K-40, Ra-226, Ra-228, Th-232, Th-234, U-234, U-235, U-238 (901.1)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Gross Alpha/Beta (900.0)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Ra-226 (903.1)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
Ra-228 (904.0)	drinking water	pH<2 with HNO3 and cool with ice, 4°C	180	1	1000	HDPE	
TBD							
0							
PAH SIM (8270C)	drinking water	Ice, 6°C	7	2	1000	Amber Glass	Teflon Lined Lids
Ethylene Glycol (8015M)	drinking water	Ice, 4°C	7	2	40	Glass Vial	Teflon Lined Lids No Headspace
Tier IV							
0							
Bacteria (fecal & total coliform, HPC) (SM 9222B; SM 9215B w/R2A medium)	drinking water	Ice, 4°C (.008% Na2S2O3 if residual Cl- present)	0.25	1	125	Pre- Sterilized Poly	
Tier IV							
0							
Isotech - d13C and d2H of methane; - Complete compositional analysis of headspace gas; - Stable isotopes of water (O,H)	drinking water	Ice, 4°C, biocide pill in sample container	180	1	1000	HDPE	
KEY: °C = degrees Celsius CLP = Contract Lab Program CLP = Contract Lab Program D2H = delta of deuterium H2SO4 = Sulfuric Acid HDPE = High density polyethylene HNO3 = Nitric Acid HPC = Heterotrophic Plate Count ml = milliliter Na2S2O3 = Sodium Thiosulfate pH = potential Hydrogen QL = Quantitation Limit Sr = Strontium TCL = Target Compound List TICs = Tentatively Identified Compound ug/L = micrograms per liter (1) Days to extract							